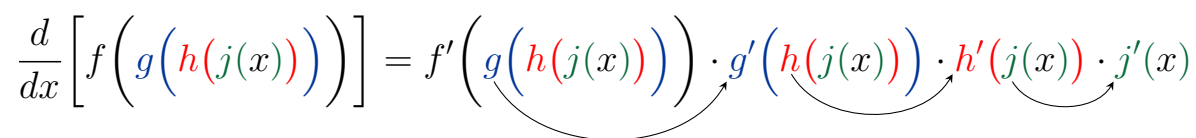


*Note:*

$$\frac{d}{dx} \left[ f \left( g \left( h(j(x)) \right) \right) \right] = f' \left( g \left( h(j(x)) \right) \right) \cdot g' \left( h(j(x)) \right) \cdot h'(j(x)) \cdot j'(x)$$
The diagram illustrates the chain rule for the derivative of a composite function. The equation is written with the functions f, g, h, and j, and their derivatives, each in a different color: f is black, g is blue, h is red, and j is green. The derivative is taken with respect to x. The result is a product of four terms. Curved arrows indicate the flow of the derivative from the outer function f to the inner functions g, h, and j, showing how the derivative of f is multiplied by the derivative of g, which is then multiplied by the derivative of h, and finally by the derivative of j.